

SSSSSSSS	TTTTTTTT	RRRRRRRR	AAAAAA	PPPPPPPP	PPPPPPPP	EEEEEEEEE	NN	NN	DDDDDDDD
SSSSSSSS	TTTTTTTT	RRRRRRRR	AAAAAA	PPPPPPPP	PPPPPPPP	EEEEEEEEE	NN	NN	DDDDDDDD
SS	TT	RR	RR	AA	PP	PP	EE	NN	DD
SS	TT	RR	RR	AA	PP	PP	EE	NN	DD
SS	TT	RR	RR	AA	PP	PP	EE	NNNN	DD
SS	TT	RR	RR	AA	PP	PP	EE	NNNN	DD
SSSSSS	TT	RRRRRRRR	AA	AA	PPPPPPPP	PPPPPPPP	EEEEEEEEE	NN	NN
SSSSSS	TT	RRRRRRRR	AA	AA	PPPPPPPP	PPPPPPPP	EEEEEEEEE	NN	NN
SS	TT	RR	RR	AAAAAAA	PP	PP	EE	NN	NNNN
SS	TT	RR	RR	AAAAAAA	PP	PP	EE	NN	NNNN
SS	TT	RR	RR	AA	PP	PP	EE	NN	DD
SS	TT	RR	RR	AA	PP	PP	EE	NN	DD
SSSSSSSS	TT	RR	RR	AA	PP	PP	EEEEEEEEE	NN	NN
SSSSSSSS	TT	RR	RR	AA	PP	PP	EEEEEEEEE	NN	NN

....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

SPEECH

```
1 0001 0 MODULE STR$APPEND ( ! Append a string to the end of the destination
2 0002 0
3 0003 0 IDENT = '1-007' ! File: STRAPPEND.B32 Edit: DG1007
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 ****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *
30 0030 1 ****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1 | FACILITY: String support library
35 0035 1
36 0036 1 | ABSTRACT:
37 0037 1 | This routine appends the input string onto the end of the
38 0038 1 | the destination string. It will handle strings of any
39 0039 1 | supported dtype or class.
40 0040 1
41 0041 1 | ENVIRONMENT: User mode, AST level or not or mixed
42 0042 1
43 0043 1 | AUTHOR: R. Will, CREATION DATE: 12-Nov-79
44 0044 1
45 0045 1 | MODIFIED BY:
46 0046 1
47 0047 1 | R. Will, 25-Oct-79 : VERSION 01
48 0048 1 | 1-001 - Original
49 0049 1 | 1-002 - String speedup, status from alloc and dealoc macros.
50 0050 1 | RW 11-Jan-1980
51 0051 1 | 1-003 - Enhance to be able to deal with a larger class of string
52 0052 1 | descriptors. Uses $STR$GET_LEN_ADDR to extract length and
53 0053 1 | address of data out of a variety of source descriptors.
54 0054 1 | CASE on class of output descriptor expanded to allow writing
55 0055 1 | of both CLASS_D and CLASS_VS.
56 0056 1 | RKR 10-APR-1981
57 0057 1 | 1-004 - Speed up code. RKR 7-OCT-1981.
```

: 58 0058 1 1-005 - Fix for SPR 11-55716. Addressing problem when appending a
: 59 0059 1 truncated source string to a CLASS VS descriptor because the
: 60 0060 1 total length would exceed MAXSTRLEN. RKR 18-APR-1983.
: 61 0061 1 1-006 - Add support for class SO string descriptors. DG 3-Oct-1983.
: 62 0062 1 1-007 - Change class SO string descriptors to SB. DG 27-Feb-1984.
: 63 0063 1 --
: 64 0064 1 <BLF/PAGE>

```
66      0065 1 ! SWITCHES:  
67      0066 1 !  
68      0067 1 !  
69      0068 1 !  
70      0069 1 ! SWITCHES ADDRESSING MODE  
71      0070 1 ! (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
72      0071 1 !  
73      0072 1 !  
74      0073 1 ! LINKAGES:  
75      0074 1 !  
76      0075 1 !  
77      0076 1 ! REQUIRE 'RTLIN:STRLNK'; ! Use require file with string linkages  
78      0261 1 !  
79      0262 1 !  
80      0263 1 ! TABLE OF CONTENTS:  
81      0264 1 !  
82      0265 1 !  
83      0266 1 ! FORWARD ROUTINE  
84      0267 1 ! STR$APPEND;  
85      0268 1 ! ! append the input string to the end  
86      0269 1 ! of the destination string  
87      0270 1 !  
88      0271 1 ! INCLUDE FILES:  
89      0272 1 !  
90      0273 1 !  
91      0274 1 ! REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTS code  
92      0369 1 ! REQUIRE 'RTLIN:STRMACROS'; ! use string macros to write code  
93      1285 1 ! LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols  
94      1286 1 !  
95      1287 1 !  
96      1288 1 ! MACROS: NONE  
97      1289 1 !  
98      1290 1 !  
99      1291 1 !  
100     1292 1 ! EQUATED SYMBOLS  
101     1293 1 !  
102     1294 1 ! LITERAL MAX_SIZE = 65535; ! largest string we can handle  
103     1295 1 !  
104     1296 1 !  
105     1297 1 !  
106     1298 1 !  
107     1299 1 ! PSECT DECLARATIONS  
108     1300 1 !  
109     1301 1 !  
110     1302 1 ! DECLARE_PSECTS (STR);  
111     1303 1 !  
112     1304 1 !  
113     1305 1 ! OWN STORAGE: NONE  
114     1306 1 !  
115     1307 1 !  
116     1308 1 !  
117     1309 1 ! EXTERNAL REFERENCES:  
118     1310 1 !  
119     1311 1 ! EXTERNAL LITERAL  
120     1312 1 !     STR$_ILLSTRCLA,  
121     1313 1 !     STR$_STRTOOLON,  
122     1314 1 !     STR$_TRU, ! signal illegal class error  
                      ! signal string too long  
                      ! status -- truncation (warning)
```

STR\$APPEND
1-007

: 123 1315 1 STR\$_NORMAL ;
: 124 1316 1
: 125 1317 1 EXTERNAL ROUTINE
: 126 1318 1 LIB\$STOP;

K 9
16-Sep-1984 01:26:47
14-Sep-1984 12:40:00 VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRAPPEND.B32;1

: ! successful append

: ! signal errors

Page 4
(2)

STI
1-(

128 1319 1 GLOBAL ROUTINE STR\$APPEND (! append a string to the end of another
129 1320 1
130 1321 1 DEST_DESC, ! pointer to destination descr.
131 1322 1 SRC_DESC ! pointer to source descriptor
132 1323 1
133 1324 1) : = !
134 1325 1
135 1326 1 !++
136 1327 1 FUNCTIONAL DESCRIPTION:
137 1328 1
138 1329 1 This routine takes a source string of any supported dtype and
139 1330 1 class, and appends that string to the end of the destination string,
140 1331 1 which may be of any supported class or dtype, except that it is
141 1332 1 impossible to add something to the end of a string having fixed-length
142 1333 1 semantics -- an error will always be signalled in that case
143 1334 1
144 1335 1 FORMAL PARAMETERS:
145 1336 1
146 1337 1 DEST_DESC.wt.dx pointer to destination descriptor
147 1338 1 SRC_DESC.rt.dx pointer to source descriptor
148 1339 1
149 1340 1 IMPLICIT INPUTS:
150 1341 1
151 1342 1 NONE
152 1343 1
153 1344 1 IMPLICIT OUTPUTS:
154 1345 1
155 1346 1 NONE
156 1347 1
157 1348 1 COMPLETION CODES:
158 1349 1
159 1350 1 STR\$_NORMAL Success
160 1351 1 STR\$_TRU Truncation -- a warning
161 1352 1
162 1353 1 SIDE EFFECTS:
163 1354 1
164 1355 1 STR\$_ILLSTRCLA may be signalled if the destination string is
165 1356 1 of fixed-length semantics
166 1357 1 or undefined
167 1358 1 STR\$_STRTOOLON if combined lengths of source and destination
168 1359 1 exceed 65K in a dynamic string destination.
169 1360 1 Dynamic string space may be allocated or deallocated
170 1361 1
171 1362 1 --
172 1363 1
173 1364 2 BEGIN
174 1365 2
175 1366 2 LOCAL
176 1367 2 SRC_LEN, ! length of source string
177 1368 2 SRC_ADDR, ! addr of 1st byte of source
178 1369 2 DEST_LEN, ! length of destination string
179 1370 2 DEST_ADDR, ! addr of 1st byte of dest.
180 1371 2 TOTLEN, ! sum of src and dst length
181 1372 2 RETURN_STATUS: ! status from macros
182 1373 2
183 1374 2 MAP DEST_DESC : REF \$STR\$descriptor;
184 1375 2 MAP SRC_DESC : REF \$STR\$descriptor;

```
185      1376 2      RETURN_STATUS = 1 ;      ! Assume success
186      1377 2
187      1378 2
188      1379 2      !+
189      1380 2      !+ find lengths and starting addresses of strings we're dealing with,
190      1381 2      !+ and their combined lengths.
191      1382 2      !-
192      1383 2
193      1384 2      $STR$GET_LEN_ADDR (SPC_DESC, SRC_LEN, SRC_ADDR) ;
194      1385 2
195      1386 2      $STR$GET_LEN_ADDR (DEST_DESC, DEST_LEN, DEST_ADDR) ;
196      1387 2
197      1388 2      TOT_LEN = .SRC_LEN + .DEST_LEN ;
198      1389 2
199      1390 2      !+
200      1391 2      !+ if the combined lengths are greater than 65K, the result is not
201      1392 2      !+ going to fit in any class of descriptor we support -- return
202      1393 2      !+ STR$_STRTOOLON.
203      1394 2      !-
204      1395 2
205      1396 2      IF .TOT_LEN GTR MAX_SIZE THEN LIB$STOP (STR$_STRTOOLON) ;
206      1397 2
207      1398 2
208      1399 2      !+
209      1400 2      !+ Algorithm for writing output differs based on the class of the
210      1401 2      !+ destination descriptor. The operation of appending is defined only
211      1402 2      !+ for class CLASS_D and CLASS_VS destination strings.
212      1403 2      !-
213      1404 2
214      1405 2      CASE .DEST_DESC [DSC$B CLASS]
215      1406 2      FROM DSC$K_CLASS_Z TO DSC$K_CLASS_SB OF
216      1407 2      SET
```

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1408 2 |+
1409 2 |+ dynamic destination strings
1410 2 |+ ****
1411 2 |-
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1413 2 | [DSC$K_CLASS_D]:
1414 3 | BEGIN
1415 3 | IF
1416 3 | %IF %BLISS (BLISS16) OR %BLISS (BLISS36)
1417 3 | %THEN
1418 3 | $STR$OVERLAP (.SRC_ADDR, .SRC_LEN, ! except on VAX
1419 3 | CH$PLUS (.DEST_ADDR, .DEST_LEN), ! If src overlaps
1420 3 | .SRC_LEN) ! with where it will be
1421 3 | written
1422 3 | OR
1423 4 | %IFI
1424 4 | ($STR$NEED_ALLOC ( ! or if dest. not large
1425 3 | .TOT_LEN, ($STR$DYN_AL_LEN (DEST DESC) ) ) ! enough for append
1426 3 | THEN ! then allocate a temp
1427 4 | BEGIN ! and use it for
1428 4 | ! building output string
1429 4 | LOCAL TEMP_DESC : $STR$DESCRIPTOR;
1430 4 |
1431 5 | IF (RETURN_STATUS = $STR$ALLOCATE (.TOT_LEN, TEMP_DESC))
1432 4 | THEN
1433 5 | BEGIN
1434 5 | CH$MOVE (.DEST_LEN, .DEST_ADDR, ! move dest to temp
1435 5 | .TEMP_DESC [DSC$A_POINTER]);
1436 5 |
1437 5 | CH$MOVE (.SRC_LEN, ! move src to end of temp
1438 5 | .SRC_ADDR,
1439 5 | CH$P[US (.TEMP_DESC [DSC$A_POINTER], .DEST_LEN));
1440 5 |
1441 5 | $STR$EXCH_DESCS (TEMP_DESC, DEST_DESC);
1442 5 | ! switch temp and dest
1443 5 |
1444 5 | RETURN_STATUS = ! deallocate temp
1445 5 | $STR$DEALLOCATE (TEMP_DESC);
1446 4 | END;
1447 4 | END ! of append via temp descriptor
1448 3 | ELSE
1449 4 | BEGIN ! movement directly into output string
1450 4 | CH$MOVE (.SRC_LEN, .SRC_ADDR,
1451 4 | CH$P[US (.DEST_ADDR, .DEST_LEN));
1452 4 |
1453 4 | DEST_DESC [DSC$W_LENGTH] = .TOT_LEN; ! adjust size of
1454 4 | ! result string
1455 3 | END; ! movement directly into output string
1456 2 | END; ! of Class_D
```

```
268 1457 2 1+  
269 1458 2 1- Varying string descriptor  
270 1459 2 1*****  
271 1460 2 1-  
272 1461 2 1-  
273 1462 2 1- [DSC$K_CLASS_VS]:  
274 1463 3 1- BEGIN  
275 1464 3 1- IF .TOT_LEN GTRU .DEST_DESC [DSC$W_MAXSTRLEN]  
276 1465 3 1- THEN ! resultant string won't fit within  
277 1466 4 1- BEGIN ! MAXSTRLEN of allocated string.  
278 1467 4 1-  
279 1468 4 1+  
280 1469 4 1- Copy as much as is possible. This length is  
281 1470 4 1- given by MAXSTRLEN - CURLEN.  
282 1471 4 1-  
283 1472 4 1- CH$MOVE ( .DEST_DESC [DSC$W_MAXSTRLEN] -  
284 1473 4 1- .(.DEST_DESC [DSC$A_POINTER])<0,16>,  
285 1474 4 1- .SRC_ADDR,  
286 1475 4 1- .DEST_DESC [DSC$A_POINTER] +  
287 1476 4 1- .DEST_LEN + 2 );  
288 1477 4 1-  
289 1478 4 1-  
290 1479 4 1+  
291 1480 4 1- Adjust CURLEN field to reflect the new length  
292 1481 4 1-  
293 1482 4 1- (.DEST_DESC [DSC$A_POINTER])<0,16> =  
294 1483 4 1- .DEST_DESC [DSC$W_MAXSTRLEN];  
295 1484 4 1-  
296 1485 4 1- RETURN_STATUS = STRS_TRU;  
297 1486 4 1-  
298 1487 4 1- END ! won't fit within MAXSTRLEN  
299 1488 3 1- ELSE BEGIN ! will fit within MAXSTRLEN  
300 1489 4 1-  
301 1490 4 1-  
302 1491 4 1+  
303 1492 4 1- Move source data directly into varying  
304 1493 4 1- string, starting at byte just beyond the last  
305 1494 4 1- byte that is currently there.  
306 1495 4 1-  
307 1496 5 1- CH$MOVE (.SRC_LEN, .SRC_ADDR,  
308 1497 4 1- (.DEST_DESC [DSC$A_POINTER] +  
309 1498 4 1- .DEST_LEN + 2 );  
310 1499 4 1-  
311 1500 4 1+  
312 1501 4 1- Adjust CURLEN field to reflect the new length  
313 1502 4 1- (.DEST_DESC [DSC$A_POINTER])<0,16> = .TOT_LEN ;  
314 1503 3 1-  
315 1504 2 1- END: ! of Class_VS  
316 1505 2 1-
```

```

: 318
: 319 1506 2 !+
: 320 1507 2 otherwise we have an undefined class of descriptor, or a descriptor
: 321 1508 2 which has fixed-length string semantics. In either case, its an
: 322 1509 2 error to try to append to it.
: 323 1510 2
: 324 1511 2 [INRANGE,OUTRANGE]:
: 325 1512 2     RETURN_STATUS = STR$_ILLSTRCLA;
: 326 1513 2     TES;
: 327 1514 2
: 328 1515 2     $STR$SIGNAL FATAL (RETURN_STATUS);           ! signal if fatal error
: 329 1516 2     RETURN .RETURN_STATUS;                  ! no non-fatal errors
: 330 1517 2
: 330 1518 1     END;                                ! possible
: 330 1518 1                                         ! End of STR$APPEND

```

```

.TITLE STR$APPEND
.IDENT \1-007\

.EXTRN STR$_ILLSTRCLA, STR$_STRTOOLON
.EXTRN STR$_TRU, STR$_NORMAL
.EXTRN LIB$STOP, STR$ANALYZE_SDESC_R1
.EXTRN STR$INIT, STR$SV_INIT
.EXTRN STR$ALOC SHORT
.EXTRN STR$SQ SHORT Q, LIB$GET VM
.EXTRN STR$INSVIRMEM, STR$SMOVQ_R1
.EXTRN LIB$FREE_VM, STR$_FATINTERR

.PSECT _STR$CODE,NOWRT, SHR, PIC,2

        OFFC 00000
.ENTRY STR$APPEND, Save R2,R3,R4,R5,R6,R7,R8,R9,- : 1319
R10,R11
        #20, SP
        MOVL #1, RETURN_STATUS : 1377
        MOVL SRC_DESC, R0 : 1384
        CMPB 3(R0), #2
        BGTRU 1$ : 1385
        MOVZWL (R0), SRC_LEN
        MOVL 4(R0), SRC_ADDR
        BRB 2$ : 1386
        JSB STR$ANALYZE_SDESC_R1
        MOVL R0, R10
        MOVL R1, R9
        MOVL DEST_DESC, R7
        CMPB 3(R7), #2
        BGTRU 3$ : 1387
        MOVZWL (R7), DEST_LEN
        MOVL 4(R7), DEST_ADDR
        BRB 4$ : 1388
        MOVL R7, R0
        JSB STR$ANALYZE_SDESC_R1
        MOVL R0, R8
        MOVL R1, R2
        ADDL3 DEST_LEN, SRC_LEN, TOT_LEN : 1389
        CMPL TOT_LEN, #65535
        BLEQ 5$ : 1390
        PUSHL #STR$_STRTOOLON
        CALLS #1, LIB$STOP

```

```

        14 C2 00002
        01 D0 00005
        AC D0 00008
        A0 91 0000C
        09 1A 00010
        60 3C 00012
        A0 D0 00015
        0C 11 00019
        00000000G 00 16 0001B 1$:
        50 D0 00021
        51 D0 00024
        AC D0 00027 2$:
        A7 91 0002B
        09 1A 0002F
        67 3C 00031
        A7 D0 00034
        0F 11 00038
        57 D0 0003A 3$:
        00 16 0003D
        50 D0 00043
        51 D0 00046
        58 C1 00049 4$:
        56 D1 0004D
        00 15 00054
        8F DD 00056
        00000000G 00 0000000G
        01 FB 0005C

```


00000000G	07 00000000G	0104 00 000FE	31 000101 19\$:	BRW	33\$	
	00	00 FB 00108	00 20\$:	BLBS	STRSSV INIT, 21\$	
	50 00000000G	8F 00 0010F	21\$:	CALLS	#0 STR\$INIT	
000000FO	8F	56 D1 00116	21\$:	MOVL	#STR\$ NORMAL, RETURN_STATUS	
		3E 1A 0011D		CMPL	TOT_LEN, #240	
		56 D5 0011F		BGTRU	27\$	
		04 12 00121		TSTL	TOT_LEN	
		54 D4 00123		BNEQ	22\$	
		2D 11 00125		CLRL	TEMP	
	51 FF A6 9E	00127 22\$:	BRB	26\$		
	07 8A 0012B		MOVAB	-1(R6), R1		
	55 00000000G0041	9E 0012E		BICB2	#7, R1	
	54 00 B5 0F	00136 23\$:	MOVAB	STRSSQ SHORT Q[R1], REMQUE_ADDR		
		05 1D 0013A		REMQUE	@0(REMQUE_ADDR), TEMP	
	53 01 D0 0013C		BVS	24\$		
	08 11 0013F		MOVL	#1 ALLOC_DONE		
	53 D4 00141	24\$:	BRB	25\$		
	56 DD 00143		CLRL	ALLOC_DONE		
00000000G	00 01 FB 00145		PUSHL	TOT_LEN		
	05 53 E8 0014C	25\$:	CALLS	#1, STR\$ALLOC SHORT		
	2C 50 E9 0014F		BLBS	ALLOC_DONE, 28\$		
	27 E2 11 00152		BLBC	RETURN_STATUS, 29\$		
10 AE	50 E9 00154	26\$:	BRB	23\$		
	54 D0 00157		BLBC	RETURN_STATUS, 29\$		
	1D 11 0015B		MOVL	TEMP, TEMP_DESC+4		
04 AE	10 AE 9F 0015D	27\$:	BRB	28\$		
	56 D0 00160		PUSHAB	TEMP_DESC+4		
	04 AE 9F 00164		MOVL	TOT [EN, 4(SP)]		
00000000G	00 02 FB 00167		PUSHAB	4(SP)		
	09 50 E8 0016E		CALLS	#2, LIB\$GET VM		
	50 00000000G	8F D0 00171	BLBS	RETURN_STATUS, 28\$		
		04 11 00178	MOVL	#STR\$INSVIRMEM, RETURN_STATUS		
	0C AE 56 B0 0017A	28\$:	BRB	29\$		
	5B 50 D0 0017E	29\$:	MOVW	TOT_LEN, TEMP_DESC		
	7F 50 E9 00181		MOVL	RETURN_STATUS, RETURN_STATUS		
10 BE	62 58 28 00184		BLBC	RETURN_STATUS, 32\$		
10 BE48	69 5A 28 00189		MOVC3	DEST_LEN, (DEST_ADDR), @TEMP_DESC+4		
	51 04 AC D0 0018F		SRC [EN, (SRC_ADDR), @TEMP_DESC+4[DEST_LEN]]	1435		
	04 AE 61 B0 00193		MOVL	(R1)-\$STR\$TEMP_DESC	1439	
	08 AE 04 A1 D0 00197		MOVL	4(R1), \$STR\$TEMP_DESC+4		
	0E AE 02 A1 B0 0019C		MOVL	2(R1), TEMP_DESC+2		
	50 0C AE 9E 001A1		MOVAB	TEMP_DESC, R0		
	00000000G 00 16 001A5		JSB	STRSSMOVQ_R1		
0C AE 04 AE B0 001AB		MOVW	\$STR\$TEMP_DESC, TEMP_DESC			
10 AE 08 AE D0 001B0		MOVL	\$STR\$TEMP_DESC+4, TEMP_DESC+4			
50 00000000G	8F D0 001B5		MOVL	#STR\$NORMAL, RETURN_STATUS		
	52 10 AE D0 001BC		MOVL	TEMP_DESC+4, R2		
	3E 13 001C0		BEQL	31\$		
00FO 8F 0C AE B1 001C2		CMPW	TEMP_DESC, #240			
	1A 1A 001C8		BGTRU	30\$		
	51 52 D0 001CA		MOVL	R2, STRING_BLOCK		
	51 A1 3C 001CD		MOVZWL	-2(STRING_BLOCK), ALLOC_LENGTH		
	51 D7 001D1		DECL	R1		
	51 07 8A 001D3		BICB2	#7, R1		
00 B1 62 0E 001DE		MOVAB	STRSSQ SHORT Q[R1], INSQUE_ADDR			
		INSQUE	(R2), @0(INSQUE_ADDR)			

; Routine Size: 604 bytes, Routine Base: STR\$CODE + 0000

: 332 1519 1 END
: 333 1520 0 ELUDOM

.End of module

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	604	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_255\$DUA28:[SYSLIB]STARLET.L32;1	9776	11	0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:STRAPPEND/OBJ=OBJ\$:STRAPPEND MSRC\$:STRAPPEND/UPDATE=(ENH\$:STRAPPEND
)

Size: 604 code + 0 data bytes
Run Time: 00:10.5
Elapsed Time: 00:43.6
Lines/CPU Min: 8669
Lexemes/CPU-Min: 37768
Memory Used: 202 pages
Compilation Complete

0213 AH-BT13A-SE
VAX/VMS V4.0

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